Case 322 : Narrative

Case Vehicle (A): 2002 Ford	Veh. (B): 1999 Ford
Type: Explorer Sport, 4 x 2, 2-door SUV	Type: E150, 4 x 2, cargo van
Driver: 35-year-old female	Driver: 49-year-old male
CDC: 12-FDEW-2	CDC: 99-0000-0

SITUATION

1 It was dark, there were no streetlights, the weather was clear, and the five-lane concrete road surface was dry and free of defects. 2 Case vehicle (A) was traveling north at an unknown speed in the right northbound lane, and vehicle (B) was stopped for traffic facing north in the right northbound lane in front of case vehicle (A). The driver of case vehicle (A) failed to stop in time and struck vehicle (B) in the rear with its front. Both vehicles were towed from the scene.

The driver of case vehicle (A) was transported to a level-one trauma facility with police-reported "B" injuries and was held for treatment for eight days. The driver of vehicle (B) had police-reported "O" injuries and refused treatment.

GENERAL VEHICLE DAMAGE AND ESTIMATED CRASH SEVERITIES

3 Damage to case vehicle (A) was moderate. Direct damage began at the left-front bumper corner and extended 150-cm across the entire frontal plane. 4 The maximum crush was 30 cm to the right center of the front bumper.

Using the ROLDMISS crash-reconstruction program and 5 6 7 8 c-values measured for case vehicle (A), the following impact severities were calculated:

		Calculated Velocity Change - kph (mph)		
Vehicle	Variable	Total	Longitudinal	Latitudinal
Case Vehicle (A)	delta V	32 (20)	-32 (-20)	0 (0)
Vehicle (B)	delta V	27 (17)	27 (17)	0 (0)

DESCRIPTION OF DAMAGE TO CASE VEHICLE (A)

Exterior

In the front, 9 10 the bumper cover was torn off, the bumper was rotated up, and the bumper, the hood, the radiator, and the upper radiator support were crushed rearward. Both headlight assemblies, the hood, and the lower fascia had been removed by the body shop. 11 There was no damage to the hood hinges, and the hood was buckled. It is unknown if the rear edge of the hood was elevated but it did not contact the undamaged windshield.

12 On the right side, the forward portion of the fender was crushed rearward. The right-front tire was flat, and had been replaced by the spare tire prior to towing. The forward portion of the right door was buckled, 13 but the door remained closed and operational and the glazing remained intact. There was no change to the right wheelbase.

8 15 On the left side, the fender was displaced slightly rearward. The left door remained closed and operational and the glazing remained intact. There was no significant change to the left wheelbase.

14 There was no damage to the rear of the vehicle.

Interior

This vehicle was equipped with 16 steering-wheel and 17 18 19 passenger frontal-impact airbags, and both deployed in this frontal impact. 20 21 22 23 There was no damage to the

steering-wheel airbag module covers/flaps, [24] but the left edge of the upper flap was scuffed. [25] [26] There was no damage to the passenger airbag module cover/flap. [27] [28] The upper and left portions of the steering-wheel rim were deflected forward 7 cm, and [29] the left spokes were severely bent forward. The steering column was deflected up and to the left, and [30] the driver door panel/window frame was scuffed. [31] The mid instrument panel and [32] the knee bolster to the left of the steering column were dented, and [33] the knee bolster below the steering column was scuffed. [34] The driver sunvisor was scuffed and hair was embedded into the plastic of the upper portion of the left A-pillar.

[35] [36] [37] [38] [39] There were no intrusions and there was no other interior damage.

OCCUPANT KINEMATICS AND INJURIES

[40] The 5-ft, 6-in, 260-lb, 35-year-old female driver was *not* wearing the three-point belt and the [16] frontal-impact airbag deployed. [41] There were no webbing imprints on the D-ring to indicate belt use at the time of the crash. The seat was adjusted to a mid-track position, with the seatback relatively upright, and the steering-wheel tilt was in the full-up position. On impact, the driver moved forward in response to the 12 o'clock direction of force. It appears that she was leaning to the left prior to impact, [42] as evidenced by longitudinal contact marks along the interior of the driver door and [43] deformation to the left portion of the steering-wheel rim. Her left knee contacted the left side of the driver knee bolster, [44] as evidenced by a scuff mark and indentation to the panel, but no injury was attributed to this contact. She sustained a contusion to the medial aspect of the left knee, possibly from contact with the steering column or possibly from contact by the right knee, as indicated by an abrasion to the medial aspect of the right knee. She sustained a comminuted fracture to the posterior rim of the right acetabulum with effusion and subluxation of the right hip, and a contusion to the anterior aspect of the right knee, due to right knee contact with the driver knee bolster directly above the brake pedal, as evidenced by a [33] scuff mark on the knee bolster and an abrasion to the anterior aspect of the right knee. She sustained contusions to the palmar aspects of the left hand/thumb, possibly from contact with, and/or

bracing against, the left side of the steering-wheel rim. She also sustained contusions to the dorsal aspect of the left hand/thumb, possibly from contact with the instrument panel directly forward of the steering wheel. Her head contacted the upper portion of the left A-pillar and windshield/header/visor area, 34 as evidenced by scuff marks and hair deposits, but no injury was associated with this contact.

The following table and attached drawing 45 summarize the injuries for the driver of case vehicle (A).

Occupant: Driver		Age: 35 years		Gender: Female	
Restraints: 3-point belt *not* worn; frontal-impact airbag deployed		Stature: 168 cm (5 ft, 6 in)		Mass: 118 kg (260 lb)	
Injury Description	A.I.S.	Injury Source			
—	—	Definite	Probable	Possible	
Contusion, palmar aspect of the left hand/thumb	1	—	—	Steering-wheel rim	
Contusion, dorsal aspect of the left hand/thumb	1	—	—	Instrument panel	
Comminuted fracture, posterior aspect of rightacetabulum	3	Knee bolster	—	—	
Effusion and subluxation of the right hip	2	Knee bolster	—	—	
Abrasion, anterior aspect of right knee	1	Knee bolster	—	—	
Abrasion, medial aspect of right knee	1	—	—	Steering column, left knee	
Contusion, medial aspect of left knee	1	—	—	Steering column, right knee	
Maximum A.I.S. Level	3	—	—	—	
Injury Severity Score	10	—	—	—	

Diffusion and subluxation of the right hip

Comminuted fracture, right posterior acetabulum (AIS 3)

Lacerations, palmar and dorsal aspects of left hand and thumb (AIS 1)

Abrasions, medial and anterior aspects of right knee

Comminuted fracture, distal aspect of left knee (AIS 2)

Case No.: **668-05**	Light Conditions: **Dark**
Class Vehic.: **2002 Ford**	Weather: **Clear**
Type Vehic.: **General Road Speed, 4 x 4, 4-door SUV**	Road Surface: **Dry**
Dri...: **56-year-old female**	Road Construction: **Concrete**
Acc...: **2002 Ford F150 Econoline 4 x 2 cargo van**	

sidewalk

sidewalk

Speed Limit 45 mph (72 kph)

Vehicle Report

General

Conditions

Variable Number and Name	Code Value	Code Description	Other Options
V206 — Urban/Rural Area	2	Rural	more
V207 — Limited Access Highway	0	No	more
V208 — Road Total Lanes	4	4 lanes or more	more
V209 — Intersecting Road Total Lanes	8	Not applicable	more
V210 — Road Surface Type	2	Concrete	more
V211 — Road Defects	0	No	more
V212 — Construction Zone	0	No	more
V213 — Road Alignment Vertical Plane	1	Level	more
V214 — Road Alignment Horizontal Plane	1	Straight	more
V215 — Surface Covering	10	Dry	more
V216 — Visibility Limitation	0	None	more
V217 — Visibility Obstruction	0	None	more
V218 — Speed Limit	4	71-79 km/h .. 45 mph	more
V219 — Precipitation Type	0	None	more
V220 — Precipitation Rate	8	Not applicable	more
V221 — Temperature	9	Unknown	more
V222 — Crosswind	9	Unknown	more
V223 — Light Conditions	5	Dark, unlighted	more
V224 — Mechanical Malfunction Mention	0	No	more
V225 — Case Vehicle and Object	0	No	more
V226 — Case Vehicle Rollover	0	No	more

V227 — Case Vehicle Ran Off Roadway	0	No	[more](#)
V228 — Moving Case Vehicle/Contacted Moving Vehicle	0	No	[more](#)
V229 — Case Vehicle/Contacted Stopped Vehicle	1	Yes	[more](#)
V230 — Stopped Case Vehicle/Contactd Vehicle	0	No	[more](#)
V231 — Total Vehicles Hit By Case Vehicle	1	1 vehicle	[more](#)
V232 — Any Fire in Crash	0	No	[more](#)
V233 — Max Police Severity-PAR	2	B - Non-Incapacitating Injury	[more](#)
V234 — Driver Alcohol Involvement	0	Had not been drinking	[more](#)
V235 — Driver Alcohol BAC	80	Not tested	[more](#)
V236 — Driver Impairment Mention	0	No	[more](#)
V237 — Driven/Towed From Scene	2	Towed Due to Damage	[more](#)

Other Vehicle

Variable Number and Name	Code Value	Code Description	Other Options
V301 — Other Vehicle VIN	1FDRE14W7XHA	—	—
V302 — Other Vehicle Manufacturer/Body Code	12111	—	—
V303 — Other Vehicle Manufacturer	121	Ford	more
V304 — Other Vehicle Body Code	11	Passenger van; panel or cargo van	more
V305 — Other Vehicle Make/Model	3113	E-150 Econoline	more
V306 — Other Vehicle Model Year	1999	—	—
V307 — Other Vehicle Mass	002123 kg	—	—
V308 — Other Vehicle Number	0	No separate report	more
V309 — Other Vehicle Number of Occupants	01	—	—
V310 — Other Vehicle Traveling Speed	000 kph	Parked or stopped	more
V311 — Highest Police Injury Severity	0	0 - No Injury	more
V312 — Other Vehicle Type	11	Small van (e.g. Econoline)	more
V313 — Other Vehicle Wheelbase (cm)	351 cm	—	—
V314 — Average Track Width	174 cm	—	—
V315 — Overall Length	538 cm	—	—
V316 — Overall Width (OAW)	201 cm	—	—
V317 — Front Overhang (FOH)	076 cm	—	—
V318 — Rear Overhang (ROH)	111 cm	—	—
V319 — Undeformed End Width (UEW)	180 cm	—	—
V320 — Engine Displacement	4.6 l	—	—
V321 — Engine: Number of Cylinders	08	—	—
V322 — Direct Damage Length (DDL)	999	Unknown	more
V323 — Front-End Overlap % (FEO)	99	Missing or Not applicable	more
V324 — Vehicle Overlap % (VOL)	99	Missing or Not applicable	more

Case Vehicle

General

Variable Number and Name	Code Value	Code Description	Other Options
V401 — VIN	1FMYU60E22UA	—	—
V402 — Manufacturer/Body Code	12114	—	—
V403 — Vehicle Manufacturer	121	Ford	more
V404 — Vehicle Body Code	14	—	—
V405 — Make/Model Code	3131	Explorer MPV	more
V406 — Model Year	2002	—	—
V407 — Vehicle Mass	001710 kg	—	—
V408 — Odometer Reading	007218 miles	—	—
V409 — Number of Occupants	01	—	—
V410 — Traveling Speed	999	Unknown	more
V411 — Body Type	21	Small utility (e.g. Jeep, Scout, Bronco)	more
V412 — Stolen Vehicle	8	Not currently collected	more
V413 — Body Structure	1	Body and frame	more
V414 — Transmission Type	1	Automatic	more
V415 — Transmission Lever Location	3	Column	more
V416 — Steering	1	Power	more
V417 — Brakes	1	Power	more
V418 — Brake Type	3	Disc - all wheels	more
V419 — Brake Anti-lock Device	2	Four-wheel	more
V420 — Air Conditioning in Vehicle	8	Not currently collected	more
V421 — Drive Type	1	Rear wheel	more
V422 — Dual Rear Wheels	0	No	more
V423 — Original Restraint System Type	3	Airbag	more

V424 — Equipped With Roll Bar	0	No	more
V425 — Roof Type	4	Sun roof closed	more
V426 — Wheelbase	259 cm	—	—
V427 — Anti-lacerative Glass	0	None	more
V428 — Average Track Width	149 cm	—	—
V429 — Overall Length	458 cm	—	—
V430 — Overall Width (OAW)	178 cm	—	—
V431 — Front Overhang	088 cm	—	—
V432 — Rear Overhang	112 cm	—	—
V433 — Undeformed End Width (UEW)	150 cm	—	—
V434 — Engine Displacement	4.0 l	—	—
V435 — Engine: Number of Cylinders	06	—	—
V436 — Direct Damage Length (DDL)	150 cm	—	—
V437 — Front End Overlap % (FEO)	98	98% or more	more
V438 — Vehicle Overlap % (VOL)	98	98% or more	more

Case Vehicle

Damage

Description

Variable Number and Name	Code Value	Code Description	Other Options
V501 — Maximum Crush - Front	030 cm	—	—
V502 — Maximum Crush - Right Side	000 cm	No crush (or less than 1 cm.)	more
V503 — Maximum Crush - Rear	000 cm	No crush (or less than 1 cm.)	more
V504 — Maximum Crush - Left Side	000 cm	No crush (or less than 1 cm.)	more
V505 — Maximum Crush - Roof	000 cm	No crush (or less than 1 cm.)	more
V506 — Maximum Crush - Other	000 cm	No crush (or less than 1 cm.)	more
V507 — Are Events In Chronological Order	1	Yes	more
V508 — Event 1 Impact Location	1	On Roadway	more
V509 — Event 1 Impact Configuration	14	FRONT of case veh - REAR of contacted Vehicle	more
V510 — Event 1 Object/Vehicle Contacted	11	Small van (e.g. Econoline)	more
V511 — Event 2 Impact Location	8	No 2nd event	more
V512 — Event 2 Impact Configuration	88	No 2nd event	more
V513 — Event 2 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V514 — Event 3 Impact Location	8	No 3rd event	more
V515 — Event 3 Impact Configuration	88	No 3rd event	more
V516 — Event 3 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V517 — Event 4 Impact Location	8	No 4th event	more
V518 — Event 4 Impact Configuration	88	No 4th event	more
V519 — Event 4 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V520 — Event 5 Impact Location	8	No 5th event	more
V521 — Event 5 Impact Configuration	88	No 5th event	more
V522 — Event 5 Object/Vehicle Contacted	00	No object/vehicle contacted	more
V523 — Event 6 Impact Location	8	No 6th event	more

V524 — Event 6 Impact Configuration	88	No 6th event	[more](#)
V525 — Event 6 Object/Vehicle Contacted	00	No object/vehicle contacted	[more](#)
V526 — Event 7 Impact On Road	8	No 7th event	[more](#)
V527 — Event 7 Impact Configuration	88	No 7th event	[more](#)
V528 — Event 7 Object/Vehicle Contacted	00	No object/vehicle contacted	[more](#)
V529 — Primary CDC Case Vehicle -event Number	1	Event 1	[more](#)
V530 — Primary CDC Case Vehicle - impact speed	999	Unknown	[more](#)
V531 — Primary CDC Case Vehicle - Estimated By	1	Investigator	[more](#)
V532 — Primary CDC Case Vehicle -crush	030	—	—
V533 — Primary CDC Case Vehicle -clock #1	12	12 o'clock	[more](#)
V534 — Primary CDC Case Vehicle letter 1 #1	06	F - Front	[more](#)
V535 — Primary CDC Case Vehicle letter 2 #1	04	D - Distributed (Side or End)	[more](#)
V536 — Primary CDC Case Vehicle letter 3 #1	05	E - Everything below belt line	[more](#)
V537 — Primary CDC Case Vehicle letter 4 #1	23	W - Wide impact area	[more](#)
V538 — Primary CDC Case Vehicle Extent #1	02	Extent 2	[more](#)
V539 — Primary CDC Case Vehicle -CDC #1	12FDEW2	—	—
V541 — Primary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	[more](#)
V542 — Primary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	[more](#)
V543 — Primary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	[more](#)
V544 — Primary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	[more](#)
V545 — Primary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	[more](#)
V546 — Primary CDC Case Vehicle -CDC #2	9800000	—	—
V547 — Primary CDC Contacted Vehicle - Impact Speed	999	Unknown	[more](#)
V548 — Primary CDC Contacted Vehicle - Estimated By	1	Investigator	[more](#)
V549 — Primary CDC Contacted Vehicle -crush	999	Unknown	[more](#)
V550 — Primary CDC Contacted Vehicle -clock #1	99	Unknown or no damage	[more](#)
V551 — Primary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	[more](#)

V552 — Primary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	[more](#)
V553 — Primary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	[more](#)
V554 — Primary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	[more](#)
V555 — Primary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	[more](#)
V556 — Primary CDC Contacted Vehicle -CDC #1	9900000	—	—
V558 — Primary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	[more](#)
V559 — Primary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	[more](#)
V560 — Primary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	[more](#)
V561 — Primary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	[more](#)
V562 — Primary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	[more](#)
V563 — Primary CDC Contacted Vehicle -CDC #2	9900000	—	—
V564 — Secondary CDC Case Vehicle - Event No	8	Not applicable	[more](#)
V565 — Secondary CDC Case Vehicle - Impact Speed	998	Not Applicable	[more](#)
V566 — Secondary CDC Case Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	[more](#)
V567 — Secondary CDC Case Vehicle -crush	998	Not Applicable	[more](#)
V568 — Secondary CDC Case Vehicle -clock #1	98	Not Applicable	[more](#)
V569 — Secondary CDC Case Vehicle letter 1 #1	00	Missing Data/Not applicable	[more](#)
V570 — Secondary CDC Case Vehicle letter 2 #1	00	Missing Data/Not applicable	[more](#)
V571 — Secondary CDC Case Vehicle letter 3 #1	00	Missing Data/Not applicable	[more](#)
V572 — Secondary CDC Case Vehicle letter 4 #1	00	Missing Data/Not applicable	[more](#)
V573 — Secondary CDC Case Vehicle Extent #1	00	Missing Data/Not applicable	[more](#)
V574 — Secondary CDC Case Vehicle -CDC #1	9800000	—	—
V576 — Secondary CDC Case Vehicle letter 1 #2	00	Missing Data/Not applicable	[more](#)
V577 — Secondary CDC Case Vehicle letter 2 #2	00	Missing Data/Not applicable	[more](#)
V578 — Secondary CDC Case Vehicle letter 3 #2	00	Missing Data/Not applicable	[more](#)
V579 — Secondary CDC Case Vehicle letter 4 #2	00	Missing Data/Not applicable	[more](#)
V580 — Secondary CDC Case Vehicle Extent #2	00	Missing Data/Not applicable	[more](#)

V581 — Secondary CDC Case Vehicle -CDC #2	9800000	—	—
V582 — Secondary CDC Contacted Vehicle - Impact Speed	998	Not Applicable	[more](#)
V583 — Secondary CDC Contacted Vehicle - Estimated By	8	Not applicable (no vehicle/no impact)	[more](#)
V584 — Secondary CDC Contacted Vehicle -crush	998	Not Applicable	[more](#)
V585 — Secondary CDC Contacted Vehicle -clock #1	98	Not Applicable	[more](#)
V586 — Secondary CDC Contacted Vehicle letter 1 #1	00	Missing Data/Not applicable	[more](#)
V587 — Secondary CDC Contacted Vehicle letter 2 #1	00	Missing Data/Not applicable	[more](#)
V588 — Secondary CDC Contacted Vehicle letter 3 #1	00	Missing Data/Not applicable	[more](#)
V589 — Secondary CDC Contacted Vehicle letter 4 #1	00	Missing Data/Not applicable	[more](#)
V590 — Secondary CDC Contacted Vehicle Extent #1	00	Missing Data/Not applicable	[more](#)
V591 — Secondary CDC Contacted Vehicle -CDC #1	9800000	—	—
V593 — Secondary CDC Contacted Vehicle letter 1 #2	00	Missing Data/Not applicable	[more](#)
V594 — Secondary CDC Contacted Vehicle letter 2 #2	00	Missing Data/Not applicable	[more](#)
V595 — Secondary CDC Contacted Vehicle letter 3 #2	00	Missing Data/Not applicable	[more](#)
V596 — Secondary CDC Contacted Vehicle letter 4 #2	00	Missing Data/Not applicable	[more](#)
V597 — Secondary CDC Contacted Vehicle Extent #2	00	Missing Data/Not applicable	[more](#)
V598 — Secondary CDC Contacted Vehicle -CDC #2	9800000	—	—

Crash Severity

Variable Number and Name	Code Value	Code Description	Other Options
V601 — Case Vehicle Primary Impact Number	1	—	—
V602 — Primary Impact Total Delta-V	032 kph	—	—
V603 — Primary Case Vehicle Reconstructed Longitudinal Delta-V	-032 kph	—	—
V604 — Primary Case Vehicle Reconstructed Lateral Delta-V	0000 kph	—	—
V605 — Primary Case Vehicle Reconstructed Crush Energy	0059 kJ	—	—
V606 — Primary Impact Case Vehicle - reconstuction	22	Reconstructed, moderate confidence level	more
V607 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	more
V608 — Primary Contacted Vehicle Reconstructed Total Delta-V	027 kph	—	—
V609 — Primary Contacted Vehicle Reconstructed Longitudinal Delta-V	0027 kph	—	—
V610 — Primary Contacted Vehicle Reconstructed Lateral Delta-V	0000 kph	—	—
V611 — Primary Contacted Vehicle Reconstructed Crush Energy	0071 kJ	—	—
V612 — Case Vehicle Secondary Impact Number	8	—	—
V613 — Secondary Case Vehicle Reconstructed Total Delta-V	888	N/A	more
V614 — Secondary Case Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V615 — Secondary Case Vehicle Reconstructed Lateral Delta-V	8888	—	—
V616 — Secondary Case Vehicle Reconstructed Crush Energy	8888	—	—
V617 — Secondary Case Vehicle Reconstruction Note	88	—	—
V618 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	more

V619 — Secondary Contacted Vehicle Reconstructed Total Delta-V	888	N/A	[more](#)
V620 — Secondary Contacted Vehicle Reconstructed Longitudinal Delta-V	8888	—	—
V621 — Secondary Contacted Vehicle Reconstructed Lateral Delta-V	8888	—	—
V622 — Secondary Contacted Vehicle Reconstructed Crush Energy	8888	—	—
V623 — Case Vehicle Primary Impact Number	1	—	—
V624 — Primary Case Vehicle Reconstructed Total EBS	029 kph	—	—
V625 — Primary Case Vehicle Reconstructed Longitudinal EBS	-029 kph	—	—
V626 — Primary Case Vehicle Reconstructed Lateral EBS	0000 kph	—	—
V627 — Primary Case Vehicle Reconstructed Crush Energy	0059 kJ	—	—
V628 — Primary Case Vehicle Reconstruction Note	22	Reconstructed, moderate confidence level	[more](#)
V629 — Primary Case Vehicle Reconstruction Mode	2	CDC & detailed damage	[more](#)
V630 — Primary Contacted Vehicle Reconstruction Total EBS	999	Unknown	[more](#)
V631 — Primary Contacted Vehicle Reconstruction Longitudinal EBS	9999	—	—
V632 — Primary Contacted Vehicle Reconstruction Lateral EBS	9999	—	—
V633 — Primary Contacted Vehicle Reconstruction Crush Energy	9999	—	—
V634 — Case Vehicle Secondary Impact Number	8	Not applicable	[more](#)
V635 — Secondary Case Vehicle Reconstruction Total EBS	888	N/A	[more](#)
V636 — Secondary Case Vehicle Reconstruction Longitudinal EBS	8888	—	—
V637 — Secondary Case Vehicle Reconstruction Lateral EBS	8888	—	—
V638 — Secondary Case Vehicle Reconstruction Crush Energy	8888	—	—
V639 — Secondary Case Vehicle	88	—	—

Reconstruction Note			
V640 — Secondary Case Vehicle Reconstruction Mode	8	Not applicable	[more](#)
V641 — Secondary Contacted Vehicle Reconstruction Total EBS	888	N/A	[more](#)
V642 — Secondary Contacted Vehicle Reconstruction Longitudinal EBS	8888	—	—
V643 — Secondary Contacted Vehicle Reconstruction Lateral EBS	8888	—	—
V644 — Secondary Contacted Vehicle Reconstruction Crush Energy	8888	—	—
V645 — Case Vehicle Reconstructed Impact Number	1	—	—
V646 — Case Vehicle Impact 1 Plane	1	Bumper	[more](#)
V647 — Case Vehicle Impact 1 Direct Damage Length [DDL]	150 cm	—	—
V648 — Case Vehicle Impact 1 Max Crush	030 cm	—	—
V649 — Case Vehicle Impact 1 Field-L	137 cm	—	—
V650 — Case Vehicle Impact 1 C1	000 cm	No Crush	[more](#)
V651 — Case Vehicle Impact 1 C2	007 cm	—	—
V652 — Case Vehicle Impact 1 C3	030 cm	—	—
V653 — Case Vehicle Impact 1 C4	028 cm	—	—
V654 — Case Vehicle Impact 1 C5	015 cm	—	—
V655 — Case Vehicle Impact 1 C6	028 cm	—	—
V656 — Case Vehicle Impact 1 +/- D	0000 cm	—	—
V657 — Case Vehicle Reconstructed Impact Number	9	Unknown	[more](#)
V658 — Case Vehicle Impact 2 Plane	9	Unknown	[more](#)
V659 — Case Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	[more](#)
V660 — Case Vehicle Impact 2 Max Crush	999	Unknown	[more](#)
V661 — Case Vehicle Impact 2 Field-L	999	Unknown	[more](#)
V662 — Case Vehicle Impact 2 C1	999	Unknown	[more](#)
V663 — Case Vehicle Impact 2 C2	999	Unknown	[more](#)
V664 — Case Vehicle Impact 2 C3	999	Unknown	[more](#)

V665 — Case Vehicle Impact 2 C4	999	Unknown	[more](#)
V666 — Case Vehicle Impact 2 C5	999	Unknown	[more](#)
V667 — Case Vehicle Impact 2 C6	999	Unknown	[more](#)
V668 — Case Vehicle Impact 2 +/- D	9999	—	—
V669 — Other Vehicle Reconstructed Impact Number	9	Unknown	[more](#)
V670 — Other Vehicle Impact 1 Plane	9	Unknown	[more](#)
V671 — Other Vehicle Impact 1 Direct Damage Length [DDL]	999	Unknown	[more](#)
V672 — Other Vehicle Impact 1 Max Crush	999	Unknown	[more](#)
V673 — Other Vehicle Impact 1 Field-L	999	Unknown	[more](#)
V674 — Other Vehicle Impact 1 C1	999	Unknown	[more](#)
V675 — Other Vehicle Impact 1 C2	999	Unknown	[more](#)
V676 — Other Vehicle Impact 1 C3	999	Unknown	[more](#)
V677 — Other Vehicle Impact 1 C4	999	Unknown	[more](#)
V678 — Other Vehicle Impact 1 C5	999	Unknown	[more](#)
V679 — Other Vehicle Impact 1 C6	999	Unknown	[more](#)
V680 — Other Vehicle Impact 1 +/- D	9999	—	—
V681 — Other Vehicle Reconstructed Impact Number	9	Unknown	[more](#)
V682 — Other Vehicle Impact 2 Plane	9	Unknown	[more](#)
V683 — Other Vehicle Impact 2 Direct Damage Length [DDL]	999	Unknown	[more](#)
V684 — Other Vehicle Impact 2 Max Crush	999	Unknown	[more](#)
V685 — Other Vehicle Impact 2 Field-L	999	Unknown	[more](#)
V686 — Other Vehicle Impact 2 C1	999	Unknown	[more](#)
V687 — Other Vehicle Impact 2 C2	999	Unknown	[more](#)
V688 — Other Vehicle Impact 2 C3	999	Unknown	[more](#)
V689 — Other Vehicle Impact 2 C4	999	Unknown	[more](#)
V690 — Other Vehicle Impact 2 C5	999	Unknown	[more](#)
V691 — Other Vehicle Impact 2 C6	999	Unknown	[more](#)
V692 — Other Vehicle Impact 2 +/- D	9999	—	—

Case Vehicle

Tires & Rims

Variable Number and Name	Code Value	Code Description	Other Options
V701 — Left Front Wheel Damaged	0	No	[more](#)
V702 — Right Front Wheel Damaged	1	Yes	[more](#)
V703 — Right Rear Wheel Damaged	0	No	[more](#)
V704 — Left Rear Wheel Damaged	0	No	[more](#)
V705 — Left Front Tire Tread Type	4	All Weather	[more](#)
V706 — Right Front Tire Tread Type	4	All Weather	[more](#)
V707 — Right Rear Tire Tread Type	4	All Weather	[more](#)
V708 — Left Rear Tire Tread Type	4	All Weather	[more](#)
V709 — Left Front Carcass Construction	3	Radial	[more](#)
V710 — Right Front Carcass Construction	3	Radial	[more](#)
V711 — Right Rear Carcass Construction	3	Radial	[more](#)
V712 — Left Rear Carcass Construction	3	Radial	[more](#)
V717 — Left Front Tire Size	P23570R16	—	—
V718 — Right Front Tire Size	P23570R16	—	—
V719 — Right Rear Tire Size	P23570R16	—	—
V720 — Left Rear Tire Size	P23570R16	—	—

Case Vehicle

Fuel, Tank, Fire

Variable Number and Name	Code Value	Code Description	Other Options
V801 — Propulsive Fuel Type	1	Gasoline	[more](#)
V802 — Main Tank Location	322	Within frame/centered laterally - within vertically	[more](#)
V803 — Main Filler Cap Location	113	Left of frame laterally - above vertically	[more](#)
V804 — Main Tank Material	1	Steel	[more](#)
V805 — Aux Tank Type	8	Not applicable (not equipped)	[more](#)
V806 — Aux Tank Location	888	Not applicable (not equipped)	[more](#)
V807 — Aux Filler Cap Location	888	Not applicable (not equipped)	[more](#)
V808 — Aux Tank Material	8	Not applicable	[more](#)
V901 — Fuel Leakage From Crash	0	No	[more](#)
V1001 — Fire In Or On Case Vehicle	0	No	[more](#)

Case Vehicle

Exterior

Variable Number and Name	Code Value	Code Description	Other Options
V1101 — Hood Latch Released	9	Unknown	more
V1102 — Hood Latch Damaged	9	Unknown	more
V1103 — Hood Latch Jammed	9	Unknown	more
V1104 — Left Hood Hinge Damaged	0	No	more
V1105 — Left Hood Hinge Separated	8	Not applicable	more
V1106 — Right Hood Hinge Damaged	0	No	more
V1107 — Right Hood Hinge Separated	8	Not applicable	more
V1108 — Hood Remained On Vehicle	1	Yes	more
V1109 — Rear Hood Edge Elevated	9	Unknown	more
V1110 — Edge Contacted Windshield	0	No	more
V1111 — Edge Penetrated Windshield	8	Not applicable	more
V1112 — Hood Latch Location	1	Front of Vehicle	more
V1113 — Eng/Transmissn Mount Separation	0	No	more
V1114 — Steerng Column Flex Coupling	9	Unknown if equipped	more
V1115 — Steerng Column Coupling Damaged	9	Unknown	more
V1116 — Steerng Column Coupling Separated	9	Unknown	more
V1117 — Eng Comp Telescopng Unit	88	Not collected	more
V1118 — Comp Orig/Telescopd Diff	888	Not collected	more
V1119 — Left Side Body Mount Separation	0	No	more
V1120 — Upper Left A-pillar Separation	0	No	more
V1121 — Lower Left A-pillar Separation	0	No	more
V1122 — Upper Left B-pillar Separation	0	No	more
V1123 — Lower Left B-pillar Separation	0	No	more
V1124 — Upper Left C-pillar Separation	0	No	more
V1125 — Lower Left C-pillar Separation	0	No	more

V1126 — Upper Left D-pillar Separation	8	Not applicable (not equipped)	[more](#)
V1127 — Lower Left D-pillar Separation	8	Not applicable (not equipped)	[more](#)
V1128 — Left Front Door Opening Cause	0	Door did not open	[more](#)
V1129 — Left Rear Door Opening Cause	8	Not applicable (no left rear door)	[more](#)
V1130 — Left Front Door Jammed Closed	0	No	[more](#)
V1131 — Left Rear Door Jammed Closed	8	Not applicable (no left rear door)	[more](#)
V1132 — Rear Door Type	2	One-way tailgate	[more](#)
V1133 — Rear Door Opening Cause	0	Door did not open	[more](#)
V1134 — Rear Door Jammed Closed	0	No	[more](#)
V1135 — Luggage Partition Damagd	8	Not applicable	[more](#)
V1136 — Spare Tire Status	8	Not collected	[more](#)
V1137 — Trailer Hitch Type	0	No hitch	[more](#)
V1138 — Trailer Type	0	No trailer	[more](#)
V1139 — Right Side Body Mount Separation	0	No	[more](#)
V1140 — Upper Right A-pillar Separation	0	No	[more](#)
V1141 — Lower Right A-pillar Separation	0	No	[more](#)
V1142 — Upper Right B-pillar Separation	0	No	[more](#)
V1143 — Lower Right B-pillar Separation	0	No	[more](#)
V1144 — Upper Right C-pillar Separation	0	No	[more](#)
V1145 — Lower Right C-pillar Separation	0	No	[more](#)
V1146 — Upper Right D-pillar Separation	8	Not applicable (not equipped)	[more](#)
V1147 — Lower Right D-pillar Separation	8	Not applicable (not equipped)	[more](#)
V1148 — Right Front Door Opening Cause	00	Door did not open	[more](#)
V1149 — Right Rear Door Opening Cause	98	Not applicable (no right rear door)	[more](#)
V1150 — Right Front Door Jammed Closed	0	No	[more](#)
V1151 — Right Rear Door Jammed Closed	8	Not applicable (no right rear door)	[more](#)

V1152 — Van Rear Door Type	8	Not applicable (not a van)	[more](#)
V1153 — Windshield Cracked		No	[more](#)
V1154 — Windshield Broken	8	Not applicable	[more](#)
V1155 — Windshield Cracked or Broken by Occupant	8	Not applicable	[more](#)
V1156 — Bond Separation Extent	0	None	[more](#)
V1157 — Windshield Code		—	—
V1158 — Did Sun/T Roof Open	0	No	[more](#)

Case Vehicle

Steering

Column/Rim

Variable Number and Name	Code Value	Code Description	Other Options
V1201 — Steering Wheel Rim Damage	2	Severely bent	more
V1202 — Number of Steering Wheel Spokes	4	4 spokes	more
V1203 — Steering Wheel Spoke Damage	2	Severely bent	more
V1204 — Column Tilt Feature	2	Up	more
V1205 — Column Swing-away Feature	0	Not equipped	more
V1206 — Column Telescoping Feature	0	Not equipped	more
V1207 — Wheel Energy Absorb Device	8	Not collected	more
V1208 — Wheel Ea Orig/Damaged Diff	888	Not collected	more
V1209 — Column Energy Absorb Device	88	Not collected	more
V1210 — Column Ea Orig/Comprss Diff	888	Not collected	more
V1211 — Shear Capsule Separation	888	Not collected	more
V1212 — Column Vertical Rotation	1	Upward apparent rotation	more
V1213 — Column Lateral Rotation	1	Left apparent rotation	more
V1214 — Steering Wheel Hub Damage	1	Occupant contact	more

Case Vehicle

Intrusion

Variable Number and Name	Code Value	Code Description	Other Options
V1301 — Occupant Compartment Intrusion	0	No	more
V1302 — Was Intrusion Catastrophic	8	Not applicable	more
V1303 — Intrusion Number 01	00	No Intrusion, None	more
V1304 — Intrusion 01 Occupant Space Number	00	No Intrusion, None	more
V1305 — Intrusion 01 Intruding Object	00	No Intrusion, None	more
V1306 — Intrusion 01 Assoc Event Number	0	No Intrusion, None	more
V1307 — Intrusion 01 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1308 — Intrusion 01 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1309 — Intrusion 01 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1310 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1311 — Intrusion 01 Injury Number	00	No injury or no intrusion	more
V1312 — Intrusion 01 Occupant Number	00	No contact or no intrusion	more
V1313 — Intrusion 01 Injury Number	99	Contact, injury unknown or data not collected	more
V1314 — Intrusion Number 02	00	No Intrusion, None	more
V1315 — Intrusion 02 Occupant Space Number	00	No Intrusion, None	more
V1316 — Intrusion 02 Intruding Object	00	No Intrusion, None	more
V1317 — Intrusion 02 Assoc Event Number	0	No Intrusion, None	more
V1318 — Intrusion 02 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1319 — Intrusion 02 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1320 — Intrusion 02 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1321 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more
V1322 — Intrusion 02 Injury Number	00	No injury or no intrusion	more
V1323 — Intrusion 02 Occupant Number	00	No contact or no intrusion	more

V1324 — Intrusion 02 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1325 — Intrusion Number 03	00	No Intrusion, None	[more](#)
V1326 — Intrusion 03 Occupant Space Number	00	No Intrusion, None	[more](#)
V1327 — Intrusion 03 Intruding Object	00	No Intrusion, None	[more](#)
V1328 — Intrusion 03 Assoc Event Number	0	No Intrusion, None	[more](#)
V1329 — Intrusion 03 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	[more](#)
V1330 — Intrusion 03 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	[more](#)
V1331 — Intrusion 03 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	[more](#)
V1332 — Intrusion 03 Occupant Number	00	No contact or no intrusion	[more](#)
V1333 — Intrusion 03 Injury Number	00	No injury or no intrusion	[more](#)
V1334 — Intrusion 03 Occupant Number	00	No contact or no intrusion	[more](#)
V1335 — Intrusion 03 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1336 — Intrusion Number 04	00	No Intrusion, None	[more](#)
V1337 — Intrusion 04 Occupant Space Number	00	No Intrusion, None	[more](#)
V1338 — Intrusion 04 Intruding Object	00	No Intrusion, None	[more](#)
V1339 — Intrusion 04 Assoc Event Number	0	No Intrusion, None	[more](#)
V1340 — Intrusion 04 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	[more](#)
V1341 — Intrusion 04 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	[more](#)
V1342 — Intrusion 04 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	[more](#)
V1343 — Intrusion 04 Occupant Number	00	No contact or no intrusion	[more](#)
V1344 — Intrusion 04 Injury Number	00	No injury or no intrusion	[more](#)
V1345 — Intrusion 04 Occupant Number	00	No contact or no intrusion	[more](#)
V1346 — Intrusion 04 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1347 — Intrusion Number 05	00	No Intrusion, None	[more](#)
V1348 — Intrusion 05 Occupant Space Number	00	No Intrusion, None	[more](#)
V1349 — Intrusion 05 Intruding Object	00	No Intrusion, None	[more](#)
V1350 — Intrusion 05 Assoc Event Number	0	No Intrusion, None	[more](#)

V1351 — Intrusion 05 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1352 — Intrusion 05 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1353 — Intrusion 05 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1354 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1355 — Intrusion 05 Injury Number	00	No injury or no intrusion	more
V1356 — Intrusion 05 Occupant Number	00	No contact or no intrusion	more
V1357 — Intrusion 05 Injury Number	99	Contact, injury unknown or data not collected	more
V1358 — Intrusion Number 06	00	No Intrusion, None	more
V1359 — Intrusion 06 Occupant Space Number	00	No Intrusion, None	more
V1360 — Intrusion 06 Intruding Object	00	No Intrusion, None	more
V1361 — Intrusion 06 Assoc Event Number	0	No Intrusion, None	more
V1362 — Intrusion 06 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1363 — Intrusion 06 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1364 — Intrusion 06 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1365 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1366 — Intrusion 06 Injury Number	00	No injury or no intrusion	more
V1367 — Intrusion 06 Occupant Number	00	No contact or no intrusion	more
V1368 — Intrusion 06 Injury Number	99	Contact, injury unknown or data not collected	more
V1369 — Intrusion Number 07	00	No Intrusion, None	more
V1370 — Intrusion 07 Occupant Space Number	00	No Intrusion, None	more
V1371 — Intrusion 07 Intruding Object	00	No Intrusion, None	more
V1372 — Intrusion 07 Assoc Event Number	0	No Intrusion, None	more
V1373 — Intrusion 07 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	more
V1374 — Intrusion 07 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	more
V1375 — Intrusion 07 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	more
V1376 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more
V1377 — Intrusion 07 Injury Number	00	No injury or no intrusion	more
V1378 — Intrusion 07 Occupant Number	00	No contact or no intrusion	more

V1379 — Intrusion 07 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1380 — Intrusion Number 08	00	No Intrusion, None	[more](#)
V1381 — Intrusion 08 Occupant Space Number	00	No Intrusion, None	[more](#)
V1382 — Intrusion 08 Intruding Object	00	No Intrusion, None	[more](#)
V1383 — Intrusion 08 Assoc Event Number	0	No Intrusion, None	[more](#)
V1384 — Intrusion 08 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	[more](#)
V1385 — Intrusion 08 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	[more](#)
V1386 — Intrusion 08 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	[more](#)
V1387 — Intrusion 08 Occupant Number	00	No contact or no intrusion	[more](#)
V1388 — Intrusion 08 Injury Number	00	No injury or no intrusion	[more](#)
V1389 — Intrusion 08 Occupant Number	00	No contact or no intrusion	[more](#)
V1390 — Intrusion 08 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1391 — Intrusion Number 09	00	No Intrusion, None	[more](#)
V1392 — Intrusion 09 Occupant Space Number	00	No Intrusion, None	[more](#)
V1393 — Intrusion 09 Intruding Object	00	No Intrusion, None	[more](#)
V1394 — Intrusion 09 Assoc Event Number	0	No Intrusion, None	[more](#)
V1395 — Intrusion 09 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	[more](#)
V1396 — Intrusion 09 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	[more](#)
V1397 — Intrusion 09 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	[more](#)
V1398 — Intrusion 09 Occupant Number	00	No contact or no intrusion	[more](#)
V1399 — Intrusion 09 Injury Number	00	No injury or no intrusion	[more](#)
V1400 — Intrusion 09 Occupant Number	00	No contact or no intrusion	[more](#)
V1401 — Intrusion 09 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1402 — Intrusion Number 10	00	No Intrusion, None	[more](#)
V1403 — Intrusion 10 Occupant Space Number	00	No Intrusion, None	[more](#)
V1404 — Intrusion 10 Intruding Object	00	No Intrusion, None	[more](#)
V1405 — Intrusion 10 Assoc Event Number	0	No Intrusion, None	[more](#)

V1406 — Intrusion 10 Max Intrusion X-axis	00 cm	0 cm or No Intrusion	[more](#)
V1407 — Intrusion 10 Max Intrusion Y-axis	00 cm	0 cm or No Intrusion	[more](#)
V1408 — Intrusion 10 Max Intrusion Z-axis	00 cm	0 cm or No Intrusion	[more](#)
V1409 — Intrusion 10 Occupant Number	00	No contact or no intrusion	[more](#)
V1410 — Intrusion 10 Injury Number	00	No injury or no intrusion	[more](#)
V1411 — Intrusion 10 Occupant Number	00	No contact or no intrusion	[more](#)
V1412 — Intrusion 10 Injury Number	99	Contact, injury unknown or data not collected	[more](#)
V1413 — Door Intrusion Number 01	88	Not Applicable	[more](#)
V1414 — Door Intrusion Number 01 Cause	8	Not applicable	[more](#)
V1415 — Door Intrusion Number 02	88	Not Applicable	[more](#)
V1416 — Door Intrusion Number 02 Cause	8	Not applicable	[more](#)
V1417 — Door Intrusion Number 03	88	Not Applicable	[more](#)
V1418 — Door Intrusion Number 03 Cause	8	Not applicable	[more](#)
V1419 — Door Intrusion 01 Component	88	Not Applicable	[more](#)
V1420 — Door Intrusion 01 Component Damaged 1	8	Not Applicable	[more](#)
V1421 — Door Intrusion 01 Component Damaged 2	8	Not Applicable	[more](#)
V1422 — Door Intrusion 02 Component	88	Not Applicable	[more](#)
V1423 — Door Intrusion 02 Component Damaged 1	8	Not Applicable	[more](#)
V1424 — Door Intrusion 02 Component Damaged 2	8	Not Applicable	[more](#)
V1425 — Door Intrusion 03 Component	88	Not Applicable	[more](#)
V1426 — Door Intrusion 03 Component Damaged 1	8	Not Applicable	[more](#)
V1427 — Door Intrusion 03 Component Damaged 2	8	Not Applicable	[more](#)
V1428 — Door Intrusion 04 Component	88	Not Applicable	[more](#)
V1429 — Door Intrusion 04 Component Damaged 1	8	Not Applicable	[more](#)
V1430 — Door Intrusion 04 Component Damaged 2	8	Not Applicable	[more](#)

Case Vehicle

Airbag(s)

Variable Number and Name	Code Value	Code Description	Other Options
V1501 — Driver Airbag Equipped	1	Yes	more
V1502 — Driver Airbag Deployed	1	Yes	more
V1503 — Driver Airbag Condition	0	No Damage	more
V1504 — Passenger Airbag Equip	1	Yes	more
V1505 — Passenger Airbag Deployed	1	Yes	more
V1506 — Passenger Airbag Condition	0	No Damage	more
V1507 — Steering Wheel Airbag Tether	1	Yes	more
V1508 — Driver Airbag Marked By Contact	0	No	more
V1509 — Passenger Airbag Tether	0	No	more
V1510 — Passenger Airbag Marked By Contact	0	No	more

Case Vehicle

Interior

Variable Number and Name	Code Value	Code Description	Other Options
V1601 — Left Front Door Damaged	4	Yes, occupant contact	more
V1602 — Right Front Door Damaged	0	No	more
V1603 — Left Front Hardware Damaged	0	No	more
V1604 — Right Front Hardware Damaged	0	No	more
V1605 — Left Front Armrest Damaged	0	No	more
V1606 — Right Front Armrest Damaged	0	No	more
V1607 — Left Front Glass Damaged	0	No	more
V1608 — Right Front Glass Damaged	0	No	more
V1609 — Left Rear Door Area Damaged	0	No	more
V1610 — Right Rear Door Area Damaged	0	No	more
V1611 — Left Rear Hardware Damaged	0	No	more
V1612 — Right Rear Hardware Damaged	0	No	more
V1613 — Left Rear Armrest Damaged	0	No	more
V1614 — Right Rear Armrest Damaged	0	No	more
V1615 — Left Rear Glass Damaged	0	No	more
V1616 — Right Rear Glass Damaged	0	No	more
V1617 — Left Roof Side Rail Damaged	0	No	more
V1618 — Right Roof Side Rail Damaged	0	No	more
V1619 — Left B-pillar Damaged	0	No	more
V1620 — Right B-pillar Damaged	0	No	more
V1621 — Left C-pillar Damaged	0	No	more
V1622 — Right C-pillar Damaged	0	No	more
V1623 — Left D-pillar Damaged	8	Not applicable	more
V1624 — Right D-pillar Damaged	8	Not applicable	more
V1625 — Left Headlining Damaged	0	No	more

V1626 — Right Headlining Damaged	0	No	more
V1627 — Left Roof Structure Damaged	0	No	more
V1628 — Right Roof Structure Damaged	0	No	more
V1629 — Left T/Sun Roof Damaged	8	Not applicable	more
V1630 — Right T/Sun Roof Damaged	8	Not applicable	more
V1631 — Other Left Side Item Damagd	8	Not applicable	more
V1632 — Other Right Side Item Damagd	8	Not applicable	more
V1633 — Foot Controls Damaged	0	No	more
V1634 — Ignition Key Damaged	0	No	more
V1635 — Rear View Mirror Damaged	0	No	more
V1636 — Sunvisor/Fitting Damaged	5	Left side only	more
V1637 — Windshield Molding Damaged	0	No	more
V1638 — Left A-pillar Damaged	3	No, occupant contact	more
V1639 — Right A-pillar Damaged	0	No	more
V1640 — Center Console Damaged	8	Not applicable	more
V1641 — Transmission Lever Damaged	0	No	more
V1642 — Horn/Spoke Shroud Damagd	4	Yes, occupant contact	more
V1643 — Upper Panel Damaged	0	No	more
V1644 — Mid Panel Damaged	4	Yes, occupant contact	more
V1645 — Lower Panel Damaged	4	Yes, occupant contact	more
V1646 — Ashtray Damaged	0	No	more
V1647 — Control Knob/Lever Damaged	0	No	more
V1648 — Glove Compartment Area Damaged	0	No	more
V1649 — Instruments Damaged	0	No	more
V1650 — Park Brake Release Damaged	0	No	more
V1651 — Park Brake Pedal Damaged	0	No	more
V1652 — A/C Or Upper Vent Damaged	0	No	more
V1653 — Heater Or A/C Duct Damaged	0	No	more
V1654 — Radio Damaged	0	No	more
V1655 — Other Item Damaged	8	Not applicable	more

V1656 — Rear Window Damaged	0	No	[more](#)
V1657 — Rear Window Header Damaged	0	No	[more](#)
V1658 — Vertical Console Damaged	0	No	[more](#)
V1659 — Roof Console Damaged	0	No	[more](#)

Case Vehicle

Seats

Variable Number and Name	Code Value	Code Description	Other Options
V1701 — Driver Front Seat Type	05	Bucket	more
V1702 — Passenger Front Seat Type	05	Bucket	more
V1703 — Driver Seat Mount Type	1	Standard	more
V1704 — Passenger Seat Mount Type	1	Standard	more
V1705 — Driver Swivel Mechanism Equipped	0	No	more
V1706 — Passenger Swivel Mechanism Equipped	0	No	more
V1707 — Driver Seat Original Equipment	1	Yes	more
V1708 — Passenger Seat Original Equipment	1	Yes	more
V1709 — Driver Seat/Rear Occupant Contact	8	Not applicable	more
V1710 — Passenger Seat/Rear Occupant Contact	8	Not applicable	more
V1711 — Driver Seat Damage	0	None	more
V1712 — Passenger Seat Damage	0	None	more
V1713 — Center Front Armrest Damaged	0	No	more
V1714 — Driver Seat Rotation	0	None apparent	more
V1715 — Passenger Seat Rotation	0	None apparent	more
V1716 — Driver Seat-back Type	3	Reclining	more
V1717 — Passenger Seat-back Type	3	Reclining	more
V1718 — Driver Seat-back Lock Type	1	Manual	more
V1719 — Passenger Seat-back Lock Type	1	Manual	more
V1720 — Driver Seat-back Lock Held	1	Yes	more
V1721 — Passenger Seat-back Lock Held	1	Yes	more
V1722 — Driver Recliner Mechanism Held	1	Yes	more

V1723 — Passenger Recliner Mechanism Held	1	Yes	more
V1724 — Driver Head Restraint Type	1	Adjustable	more
V1725 — Passenger Head Restraint Type	1	Adjustable	more
V1726 — Driver Head Rest Removed	0	No	more
V1727 — Passenger Head Rest Removed	0	No	more
V1728 — Driver Head Rest Adjustment	1	Up	more
V1729 — Passenger Head Rest Adjustment	2	Down	more
V1730 — Driver Head Rest Damage	0	None	more
V1731 — Passenger Head Rest Damage	0	None	more
V1732 — Driver Seat Adjustment Type	1	Manual	more
V1733 — Passenger Seat Adjustment Type	1	Manual	more
V1734 — Driver Seat Adjustment Provided	1	2-way	more
V1735 — Passenger Seat Adjustment Provided	1	2-way	more
V1736 — Driver Seat Adjuster Damage	0	None	more
V1737 — Passenger Seat Adjuster Damage	0	None	more
V1738 — Driver Seat Adjuster Separation	8	Not applicable	more
V1739 — Passenger Seat Adjuster Separation	8	Not applicable	more
V1740 — Driver Seat Pre-crash Position	2	Middle	more
V1741 — Passenger Seat Pre-crash Position	3	Rearward	more
V1742 — Left Rear Seat Type	2	Folding	more
V1743 — Right Rear Seat Type	2	Folding	more
V1744 — Left Rear Seat Damaged	0	None	more
V1745 — Right Rear Seat Damaged	0	None	more
V1746 — Center Rear Armrest Damaged	8	Not applicable (No Center Armrest)	more
V1747 — Left Rear Seat-back Left Lock Equipped	1	Yes	more

V1748 — Right Rear Seat-back Left Lock Equipped	0	No	[more](#)
V1749 — Left Rear Seat-back Left Lock Held	1	Yes	[more](#)
V1750 — Right Rear Seat-back Left Lock Held	8	Not applicable	[more](#)
V1751 — Left Rear Seat-back Right Lock Equipped	0	No	[more](#)
V1752 — Right Rear Seat-back Right Lock Equipped	1	Yes	[more](#)
V1753 — Left Rear Seat-back Right Lock Held	8	Not applicable	[more](#)
V1754 — Right Rear Seat-back Right Lock Held	1	Yes	[more](#)
V1755 — Left 3rd Seat Equipped	0	No	[more](#)
V1756 — Right 3rd Seat Equipped	0	No	[more](#)
V1757 — Left 3rd Seat Backrest Damaged	8	Not applicable	[more](#)
V1758 — Right 3rd Seat Backrest Damaged	8	Not applicable	[more](#)
V1759 — Left 3rd Seat Cushion Damaged	8	Not applicable	[more](#)
V1760 — Right 3rd Seat Cushion Damaged	8	Not applicable	[more](#)
V1761 — Rear Head Restraints	1	Equipped	[more](#)

MEASUREMENTS IN CENTIMETERS

This vehicle was not inspected

MEASUREMENTS IN CENTIMETERS

140

140

131

Bumper corner

POST-CRASH

261

112
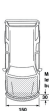
Max. crush to
left center
bumper

Bumper corner

112

PRE-CRASH

268

Width of overall
damage to front

190

112

Bumper corner

88

WINDSHIELD MARK ON CASE VEHICLE:

SOLAR TINT

Ford

Ⓥ   Ⓡ

SUN VISOR
LAMINATED
DOT-287   VF-M562
9   B
DW-1300

INTRUSION IT-1

Location of Intrusion	Intruded Component	(All Measurements Are in Centimeters)			Dominant Crush Direction
		Comparison Value	– Intruded Value	= Intrusion	
	None	–	=		
		–	=		
		–	=		
		–	=		
		–	=		
		–	=		
		–	=		
		–	=		
		–	=		

OCCUPANT CONTACT WORKSHEET

Contact	Interior Component Contacted	Occupant No. if Known	Body Region if Known	Supporting Physical Evidence	Confidence Level of Contact Point
A	sun visor	DR	Head	scuff mark and skin deposit	1
B	left upper a-pillar	DR	Head	hair deposit	1
C	steering-wheel rim and spokes	DR	Chest, arms	rim bent forward 7 cm	1
D	upper flap steering-wheel hub	DR	Chest, hands	scuff mark	2
E	mid instrument panel	DR	Lt. hand	indented	2
F	knee bolster	DR	Lt. knee	indented	1
G	knee bolster	DR	Rt. knee	scuff mark	1
H	door panel	DR	Lt. side	scuff mark	1
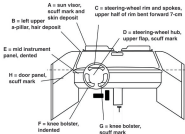
A = sun visor, scuff mark and skin deposit

B = left upper a-pillar, hair deposit

C = steering-wheel rim and spokes, upper half of rim bent forward 7-cm

D = steering-wheel hub, upper flap, scuff mark

G = mid instrument panel, dented

H = door panel, scuff mark

E = steering-wheel hub, upper flap, scuff mark

F = knee bolster, indented

J = knee bolster, scuff mark

Driver Airbag

Driver Airbag Doors

Ø6

Ø28

40

20

13

8.5

58

Vertex A S.P. X

X min. 3 mm max. √

at 1 and 11 o'clock

Vertex B S.P. X

X min. 3 mm max. √

Passenger Airbag

Passenger Airbag Door

Single Door

Vents: L / R   Tethers: Y / N
Fuel, No-fuel   Fuel, No-fuel

3 and 9 o'clock cut-outs

Case # 322: Occupant # 1; Injury # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	01	Injury #1	more
V2102 — 1st Prob Contact Area	65	Steering wheel	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	23	Wrist/hand	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	WLCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1; Injury # 2

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	02	Injury #2	more
V2102 — 1st Prob Contact Area	05	Instrument panel (specific area unknown)	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	23	Wrist/hand	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	WLCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1; Injury # 3

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	03	Injury #3	more
V2102 — 1st Prob Contact Area	56	Lower instrument panel	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	16	Pelvic/hip	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	06	Fracture	more
V2107 — Primary OIC -system/Organ	19	Skeletal	more
V2108 — Primary OIC -severity	3	Serious	more
V2109 — Primary OIC	PRFS3	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1; Injury # 4

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	04	Injury #4	more
V2102 — 1st Prob Contact Area	56	Lower instrument panel	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	16	Pelvic/hip	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	04	Dislocation	more
V2107 — Primary OIC -system/Organ	10	Joints	more
V2108 — Primary OIC -severity	2	Moderate	more
V2109 — Primary OIC	PRDJ2	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1; Injury # 5

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	05	Injury #5	more
V2102 — 1st Prob Contact Area	66	Steering wheel column	more
V2103 — 2nd Prob Contact Area	38	Other (e.g. fire)	more
V2104 — Primary OIC -body Region	11	Knee	more
V2105 — Primary OIC -aspect	12	Left	more
V2106 — Primary OIC -lesion	03	Contusion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	KLCI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1; Injury # 6

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	06	Injury #6	more
V2102 — 1st Prob Contact Area	66	Steering wheel column	more
V2103 — 2nd Prob Contact Area	38	Other (e.g. fire)	more
V2104 — Primary OIC -body Region	11	Knee	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	01	Abrasion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	KRAI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1; Injury # 7

Variable Number and Name	Code Value	Code Description	Other Options
V2101 — Injury Number	07	Injury #7	more
V2102 — 1st Prob Contact Area	56	Lower instrument panel	more
V2103 — 2nd Prob Contact Area	00	No Contact/not applicable	more
V2104 — Primary OIC -body Region	11	Knee	more
V2105 — Primary OIC -aspect	18	Right	more
V2106 — Primary OIC -lesion	01	Abrasion	more
V2107 — Primary OIC -system/Organ	09	Integumentary	more
V2108 — Primary OIC -severity	1	Minor	more
V2109 — Primary OIC	KRAI1	—	—
V2110 — Assoc OIC 1 -body Region	99	No injury	more
V2111 — Assoc OIC 1 -aspect	99	No injury	more
V2112 — Assoc OIC 1 -lesion	99	No injury	more
V2113 — Assoc OIC 1 -system/Organ	99	No injury	more
V2114 — Assoc OIC 1 -severity	9	Unknown	more
V2115 — Assoc OIC 1	—	—	—

Case # 322: Occupant # 1

Variable Number and Name	Code Value	Code Description	Other Options
V2001 — Occupant Number	01	Occupant #1	more
V2002 — Occupant Role At 1st Impact	1	Motor vehicle driver	more
V2003 — Occupant Position -row	1	1st row	more
V2004 — Occupant Position -lateral	1	Left	more
V2005 — Occupant Position -posture	10	Sitting on seat	more
V2006 — Occupant Age In Years	35	—	—
V2007 — Occupant Age In Months	25	25 months or older	more
V2008 — Occupant Mass	118 kg	—	—
V2009 — Occupant Height	168 cm	—	—
V2010 — Occupant Sex	1	Male	more
V2011 — Occupant Treatment/Mortality	04	Hospitalized over 24 hrs or for significant treatment	more
V2012 — Injury Severity Score	10	ISS 10	more
V2013 — Non-impact Med Condition	0	None	more
V2014 — Police Injury Severity	2	B - Non-incapacitating Injury	more
V2015 — Active Restraint System	3	Both lap belt and shoulder harness	more
V2016 — Active Restraint Usage	0	None (available but not used)	more
V2017 — Passive Restraint System	1	Air bag installed	more
V2018 — Passive Restraint Usage	2	Air bag deployed	more
V2019 — Child Seat Type	88	Not applicable (adult or older child)	more
V2020 — Occupant Ejection Degree	0	None	more
V2021 — Occupant Ejection Area	98	Not applicable (not ejected)	more
V2022 — Highest OIC Severity	3	Serious	more

V2023 — Head Restraint Available	1	Equipped	[more](#)
V2024 — Occupant Eyewear	0	None	[more](#)
V2025 — Source of Occupant Info	7	Combination of above	[more](#)

OFF

TOYS

PARKING IN REAR

BRAKE RELEASE